

**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
RNAV (RNP) STANDARD INSTRUMENT APPROACH PROCEDURE  
TITLE 14 CFR PART 97.33**

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated.  
Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or feet RVR.

<u>AIRPORT ID</u> IAD	<u>PROCEDURE NAME</u> RNAV (RNP) Z RWY 1R	<u>ORIGINAL/AMENDMENT</u> 1A	<u>CITY</u> WASHINGTON	<u>STATE</u> DC
<u>AIRPORT ELEVATION</u> 312	<u>TDZE</u> 312	<u>SUPERSEDED</u> RNAV (RNP) Z RWY 1R	<u>DATED</u> 05/16/2024	<u>MAG VAR</u> 10W
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 17 APRIL 2025	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>EPOCH YEAR</u> 2000
			<u>CANCEL/SUSPEND</u>	

**TERMINAL ROUTES**

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
HELMZ	IAF	GRASK		TF	FB	1.00	098.62	7.41	5000
GRASK		LAZER		TF	FB	1.00	086.40	5.30	4000
LAZER		TWOOT		TF	FB	1.00	062.15	6.86	4000
TWOOT	IAF	ESTYN		TF	FB	1.00	010.67	3.29	3000
EERRS	IAF	ELLLA		TF	FB	1.00	010.66	3.71	7000
ELLLA		FAWLR		TF	FB	1.00	010.66	3.10	6000
FAWLR	IAF	TREAA		TF	FB	1.00	010.67	3.76	5000
HUFFF	IAF	JMATZ		TF	FB	1.00	098.32	8.86	6000
TREAA		TWOOT		TF	FB	1.00	010.66	3.11	4000
JMATZ		LAWWS		TF	FB	1.00	089.53	5.62	6000
LAWWS		FAWLR		TF	FB	1.00	074.56	4.62	6000
ESTYN	IF	EDSCO		TF	FB	1.00	010.67	3.15	2000
EDSCO		WAXIN		TF	FB	1.00	010.66	1.57	1500
WAXIN	PFAF	RW01R	MAP	TF	FO	0.30	010.67	3.56	
RW01R	MAP	800 MSL		CA			010.67		800
800 MSL		JCOBY		DF	FO	1.00			3000

**MISSED APPROACH**

**MAP:**

RNP: DA

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 800 THEN CLIMBING RIGHT TURN TO 3000 DIRECT JCOBY AND HOLD.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



PROFILE:

1.	PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)									
2.	PROFILE STARTS AT TWOOT														
3.	FAC:	010.67	PFAF:	WAXIN	DIST PFAF TO MAP:	DIST PFAF TO THLD:									
4.	MIN ALT:	TWOOT 4000, ESTYN 3000, EDSCO 2000, WAXIN 1500													
5.	DIST TO THLD FROM PFAF:	3.56	MM:	IM:	150 HAT:	313 HAT:	0.81	GS ANT:							
6.	MIN GP INCPT:	1500	GP ALT AT PFAF:	WAXIN 1500	OM:			MM:						IM:	
7.	GP ANGLE:	3.00	34:1:	IS CLEAR	20:1:	IS CLEAR	TCH:	55.2							
8.	MSA FROM:	RW01R 3500													

PBN REQUIREMENTS NOTE:

RNP AR APCH - GPS.

NOTES:

CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).  
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -13°C OR ABOVE 54°C.  
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.  
CHART NOTE: FOR INOPERATIVE ALS, INCREASE RNP 0.11 ALL CATS VISIBILITY TO RVR 4500.  
CHART NOTE: R-6608A AND R-6608B

ADDITIONAL FLIGHT DATA:

HOLD W, LT, 096.17 INBOUND.  
CHART AT OR ABOVE 5000 AT HELMZ.  
CHART AT OR ABOVE 7000 AT EERRS.  
CHART AT OR ABOVE 6000 AT HUFFF.

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ STANDARD

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
AUTHORIZATION REQUIRED															
RNP 0.11 DA	625	2400	313	625	2400	313	625	2400	313	625	2400	313			
RNP 0.30 DA	770	4500	458	770	4500	458	770	4500	458	770	4500	458			

CHANGES - REASONS

1. CHANGED ALL REFERENCES FROM FIX NAME GNATZ TO FIX NAME HELMZ - PER ATC REQUEST.  
2. CHANGED ALL REFERENCES FROM FIX NAME ESPNN TO FIX NAME EERRS - PER ATC REQUEST.



COORDINATED WITH:

A4A

X

ALPA

X

AOPA

X

APA

X

HAI

NBAA

X

OTHER:

PCT APCH, LAD ATCT, AMGR, VA DOT

FLIGHT CHECKED BY

PROCESSED IAW TECHNICAL SUPPORT GROUP (AJF-17) MEMO DATED 07/07/2021 GUIDANCE FOR PROCEDURAL CHANGES REQUIRING FLIGHT INSPECTION/VALIDATION

OFFICE

Digitally signed by

ERIC N SUSKI

Dec 13, 2024

DATE

DEVELOPED BY

PARNELL PRASSADA

Digitally signed by

PARNELL R PRASSADA

Sep 19, 2024

Digitally signed by

ERIC N SUSKI

Dec 13, 2024

OFFICE

AJV-A431

DATE

09/18/2024

APPROVED BY

ERIC N SUSKI

OFFICE

AJV-A431

DATE

TITLE

MANAGER

